

Message

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**From:** Bowyer, Jim [jim.bowyer@ncdenr.gov]  
**Sent:** 1/19/2021 2:28:27 PM  
**To:** Strynar, Mark [Strynar.Mark@epa.gov]; Lindstrom, Andrew [Lindstrom.Andrew@epa.gov]  
**Subject:** RE: [External] RE: Assistance request Rainwater sample

Mark,

Thanks for the response. Yes those are what I remember as well. There is no particular hurry and next week or the next is fine. Thanks again for your assistance.

**Jim Bowyer, Ph.D.**

Environmental Program Supervisor II  
Division of Air Quality, Ambient Monitoring Section  
Department of Environmental Quality

919 715 7484 office  
919 733 9777 main lab  
919 715 0890 fax  
[Jim.Bowyer@ncdenr.gov](mailto:Jim.Bowyer@ncdenr.gov)

4403 Reedy Creek Road  
1622 Mail Service Center  
Raleigh, NC 27699-1622



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**From:** Strynar, Mark [mailto:Strynar.Mark@epa.gov]  
**Sent:** Tuesday, January 19, 2021 9:20 AM  
**To:** Bowyer, Jim <jim.bowyer@ncdenr.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>  
**Subject:** RE: [External] RE: Assistance request Rainwater sample

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Jim,

Let me give a look and see what I can find. I am not sure if we formerly told you via email or over the phone. I will have to confirm all that is below. My lab is currently closed **Ex. 6 Personal Privacy (PP)** and I am told I can not get into it until COB Jan 21<sup>st</sup>. Thus I wont be able to confirm anything (they data is housed in the labs) until the earliest (I am off on Jan 22<sup>nd</sup>) Monday Jan 25<sup>th</sup>.

As I recall I got two shipments of rainwater. The first set was under a cedar tree and was fall through. More recently I got some samples closer to the Chemours facility and they were from the homes of people whose names I

recognized. My recollection was we saw a response for HFPO-DA in the first rainwater samples on our QQQ instrument but not on our Orbitrap. I believe we concluded in the first sample set it was not HFPO-DA but a mimic. I have collected some rainwater on my own under a cedar tree (and as a control in the center of my yard) in my back yard but as of yet have not been able to get to that sample.

In the second set of samples I think I was asked to confirm HFPO-DA in the rainwater as reported by a contract lab and look for any other PFAS in the rainwater. I could for sure see HFPO-DA in the second rainwater sample set. I also recall at least seeing one additional PFAS (I think it was either PMPA or PEPA) but I will need to check.

Mark

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**From:** Bowyer, Jim <[jim.bowyer@ncdenr.gov](mailto:jim.bowyer@ncdenr.gov)>  
**Sent:** Tuesday, January 19, 2021 8:41 AM  
**To:** Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Subject:** RE: [External] RE: Assistance request Rainwater sample

Andy,  
Great Thanks.

**Jim Bowyer, Ph.D.**  
Environmental Program Supervisor II  
Division of Air Quality, Ambient Monitoring Section  
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**From:** Lindstrom, Andrew [<mailto:Lindstrom.Andrew@epa.gov>]  
**Sent:** Tuesday, January 19, 2021 8:40 AM  
**To:** Bowyer, Jim <[jim.bowyer@ncdenr.gov](mailto:jim.bowyer@ncdenr.gov)>; Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Subject:** RE: [External] RE: Assistance request Rainwater sample

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Jim,

I think Mark is more likely than me to have anything on this request.

Take care,

Andy

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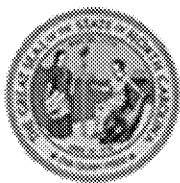
**From:** Bowyer, Jim <[jim.bowyer@ncdenr.gov](mailto:jim.bowyer@ncdenr.gov)>  
**Sent:** Thursday, January 14, 2021 10:34 AM  
**To:** Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>; Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Subject:** RE: [External] RE: Assistance request Rainwater sample

Mark and Andy,  
Hope you're doing well thru this time. I was looking for the results of these samples or as I remember more likely an email describing what was found but I can't seem to find it in my email archive. Would you perhaps still have that and could resend for my records? Thanks and take care.

**Jim Bowyer, Ph.D.**  
Environmental Program Supervisor II  
Division of Air Quality, Ambient Monitoring Section  
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**From:** Strynar, Mark [<mailto:Strynar.Mark@epa.gov>]  
**Sent:** Thursday, June 21, 2018 7:16 AM  
**To:** Bowyer, Jim <[jim.bowyer@ncdenr.gov](mailto:jim.bowyer@ncdenr.gov)>  
**Cc:** Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Subject:** RE: [External] RE: Assistance request Rainwater sample

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Jim,

Ship at your convenience. I am away all next week at the Gordon Conference.

Our address is:

Attn: Mark Strynar or Andy Lindstrom  
US EPA  
109 TW Alexander Dr.  
Chemical Services Loading Dock E  
Durham, NC 27711

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**From:** Bowyer, Jim [<mailto:jim.bowyer@ncdenr.gov>]  
**Sent:** Thursday, June 21, 2018 6:13 AM  
**To:** Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Cc:** Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Subject:** RE: [External] RE: Assistance request Rainwater sample

Mark,

I do have the samples and I believe we have at least 500 mL of the two. I can arrange to get those to you this week or early next week, whichever is most convenient.

**Jim Bowyer, Ph.D.**  
Environmental Program Supervisor I  
Division of Air Quality, Ambient Monitoring Section  
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**From:** Strynar, Mark [<mailto:Strynar.Mark@epa.gov>]  
**Sent:** Wednesday, June 20, 2018 9:05 AM  
**To:** Bowyer, Jim <[jim.bowyer@ncdenr.gov](mailto:jim.bowyer@ncdenr.gov)>  
**Cc:** Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Subject:** [External] RE: Assistance request Rainwater sample

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Jim,

Glad to do so. DO you have the sample and if so what volume?

Mark

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**From:** Bowyer, Jim [<mailto:jim.bowyer@ncdenr.gov>]  
**Sent:** Friday, June 15, 2018 1:44 PM  
**To:** Strynar, Mark <[Strynar.Mark@epa.gov](mailto:Strynar.Mark@epa.gov)>  
**Cc:** Lindstrom, Andrew <[Lindstrom.Andrew@epa.gov](mailto:Lindstrom.Andrew@epa.gov)>  
**Subject:** Assistance request Rainwater sample

Dr. Strynar,

I would like to request assistance with determining whether a rain water sample that NC DAQ has collected in our Rainwater Collection Network from a site outside of the Fayetteville area actually has what was reported by our contract lab as being GenX is actually GenX or some other compound. The sample was collected as a thru fall sample under a red cedar thru a rainfall event. I was wondering if you might be able to differentiate between GenX and another biological compound from that evergreen?

Thanks for any assistance you may be able to offer to clarify this for us.

**Jim Bowyer, Ph.D.**  
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